# Sam Seban

samseban.xyz
linkedin.com/in/sam-seban
samseban@icloud.com
+33 6 95 83 53 12 • +972 058-555-6912

## EDUCATION

**Bachelor of Science, Mechanical Engineering**                                    **Sep 2020 – Present**
*Technion – Israel Institute of Technology, Haifa, Israel*
- Specialization in Robotics, with coursework in Cognitive Robotics, Control and Automation, Advanced Robotics, and Mechatronics.
- Completed the first two years in the Technion International program (taught in English) before transitioning to the Hebrew program, learning the language in parallel.

**Baccalauréat Scientifique**                                                      **Sep 2016 – June 2019**
*Lycée Arago, Paris, France*
- High School degree with a specialty in Mathematics and Sciences, graduated with Honors.
- **Graduating project :** Building and programming a voice assistant that doubled as a voice-controlled robotic arm.

## PROFESSIONAL EXPERIENCE

**Technion Rocketry Club, Team Leader and Embedded Systems Engineer**              **May 2022 – Present**
- Developed embedded software for the rocket's onboard systems to handle telemetry, data acquisition, and real-time monitoring of critical flight parameters.
- Leads a team of 5 students from various faculties in designing and integrating software for advanced sensor systems, data processing pipelines, and visualization of live rocket data transmitted to the ground.

**Le Salon du Mariage, Software Engineer**                                         **Aug 2020 – Present**
- Designed and deployed a comprehensive application and website to manage visitor tracking and engagement for the Paris Wedding Fair, accommodating over 40,000 attendees.
- Developed and implemented an AI-powered predictive algorithm leveraging behavioral analytics and entry-point tracking to identify and proactively engage potential new clients in real time, resulting in a 14% increase in sales.

**Cerso, Paris, Full-Stack Developer**                                            **Feb 2019 – Oct 2020**
- Developed an online platform for creators, integrating a machine learning algorithm to recommend collaborators based on interests, skills, and project history.

## RESEARCH AND ACADEMIC PROJECTS

**Formula Technion, Autonomous Systems Engineer**                                 **Oct 2022 – Present**
- Works on the autonomous team of the student Formula competition, in charge of programming an autonomous driving algorithm for the Technion's race car using FastSLAM (Simultaneous Localization And Mapping).
- See more: https://www.formula-technion.com/

**Cognitive Robotics Lab, Technion, Undergraduate Research Intern**                **Jan 2024 – Jan 2025**
- Built a software framework for ROS that allows a service robot to understand and process natural language commands through the use of PDDL (Planning Domain Definition Language), NLP (Natural Language Processing) and speech recognition.
- See more on the project's GitHub repository.

**CS Hack 2022 Hackathon, Computer Science Faculty, Technion**                     **May 2022**
- Prototyped a Flutter app for deaf users, converting speech to vibrations via text-to-speech.

**T2MED Startup Hackathon, Technion Faculty of Medicine**                          **March 2022**
- Developed a machine learning application leveraging big data on past prescriptions and treatments to assist doctors in making informed decisions for future patients; won 4th place in the competition.

## EXTRACURRICULAR ACTIVITIES

**Un Bon Moment, Software Developer**                                              **Jan 2019 – Aug 2021**
- Collaborated with renowned French actor Kyan Khojandi on his podcast Un Bon Moment, developing cryptography-based tools to solve complex enigmas. See my website for more information.

**Greenpeace, Volunteer**                                                         **Dec 2015 – Feb 2016**
- Participated in the development of a website promoting solar energy and raised funds.

## SPECIALIZED SKILLS

**Programming languages, frameworks:** ROS, Linux/Unix, PHP, Git, JavaScript/Node.js, C/C++, React, Python, HTML/CSS, MySQL/SQL, CI/CD, Docker, MATLAB, Dart, AWS, Flutter Framework, SolidWorks
**Languages:** French (native), English (fluent), Hebrew (fluent), Spanish (intermediate)